INTERNATIONAL SOCIETY OF ANTIOXIDANTS

19th International Conference on
Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

PARIS REDOX 2017

June 26-27, 2017
Paris, France

Agenda
Welcome Note

Dear Colleagues,

It is with great pleasure to announce the organization of the 19th International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants to be held at the Université Pierre & Marie Curie, Campus Jussieu in Paris, France on June 26 and 27, 2017.

During Paris Redox World Congress 2017, we will discuss the role of antioxidants as modulators of redox signaling pathways rather than players that counteract oxidative stress. Antioxidants affect cell signaling provided by redox processes. Mitochondria consist of localized signaling domains and produce reactive oxygen species, ROS (i.e. Superoxide and Hydrogen Peroxide), which are signaling molecules generated by the respiratory chain.

Furthermore, we will analyze the mechanisms by which cells respond to oxidative stress and prevent cell damage and cell death, with a particular focus on neurons and neurological conditions, strokes, Alzheimer’s disease, kidney, muscle, and liver pathologies. Additionally, the mechanisms of redox regulation of cellular processes will be discussed.

Little is known on the specific targets of ROS and how oxidant and antioxidant signals are transmitted in the cell. To understand mechanisms of redox control and their role in oxidative stress pathologies and aging, it is necessary to identify and dissect the function of the key players of redox processes. We will also highlight oxidative stress evaluation and discuss the recent advances on biomarkers, related to redox alteration.

Paris Redox 2017 aims to make an important contribution towards a better understanding of redox control in physiological and pathological states that will lead to new therapeutic and disease-preventive agents.

Among strategic topics discussed during ISANH Paris Redox 2017:

- Oxidative Stress, Redox Regulation & Modulation and Redox-Active Agents
- New Players in Redox balance
- Oxidative Stress, Biosensors & Biomarkers: Imaging of Oxidative Stress
- Oxidative Stress & Stem Cells
- Beneficial effects of Oxidative Stress vs deleterious effects of antioxidants
- Oxidative Stress & Chronic Diseases
- Oxidative Stress, Antioxidants & Innovations

With this exciting program we wish to meet you in Paris.

Frédéric Batteux – Pedro Buc Calderon - Marvin Edeas – Miria Ricchetti
Chairperson of Paris Redox Scientific Committee
Paris Redox 2017

19th International Conference on
Oxidative Stress Reduction, Redox Homeostasis & Antioxidants

June 26-27, 2017
Université Pierre & Marie Curie, Paris, France

Preliminary Agenda

07:45 Welcoming & Registration of Attendees
08:55 Opening of Paris Redox World Conference

Day 1 - June 26, 2017

Session 1: Reactive Sulfide Species, Oxidative Stress and Redox Regulation-Modulation

09:00 Metabolism of reactive sulfide species by "classical" antioxidants mechanisms: a parallel or predominant system?
Kenneth Olson, Indiana University School of Medicine, USA

09:25 Interaction of sulfide with cellular bioenergetics a first/last step in redox signaling?
Frédéric Bouillaud, Institut Cochin, INSERM, France

9:50 Integrating the chemical biology of Reactive Oxygen, Nitrogen and Sulfur Species: opportunities for redox signaling and precision medicine
Martin Feelisch, University of Southampton, United Kingdom

10:15 Redox signalling predicts disease progression and patient survival in various conditions
Harry van Goor, University Medical Center Groningen, The Netherlands

10:40 Coffee Break & Poster Session

Session 2: Oxidative Stress, Redox Regulation-Modulation and Redox-Active Agents

11:10 Role of iron overload initiating oxidative stress in congenital and acquired hemolytic anemias
Eliezer Rachmilewitz, Edith Wolfson Medical Center, Israel

11:35 Oxidative stress related history of patients with intracranial aneurisms
Thierry Patrice, CHU Nantes, France

12:00 Peroxiredoxin 1 protects telomeres from oxidative damage
Joachim Lingner, Ecole Polytechnique Fédérale de Lausanne, Switzerland

12:25 Redox regulation by coenzyme A in mammalian cells
Ivan Gout, University College London, United Kingdom

12:35 Identification of protein targets of catechol estrogens in liver tissues using click chemistry-based activity probes coupled with quantitative proteomics
Shu-Hui Chen, National Cheng Kung University, Taiwan
12:45 Lunch break & poster session

Session 3: Nrf2, Redox Signaling & Gene Regulation

13:30 Skin redox balance maintenance and the role of Nrf2 in dermatology: recent scientific advances
Laurent Marrot, L’Oréal R&D, France

13:55 Modulation of proteostasis by transcription factor NRF2 and impact in Alzheimer's disease
Ana Isabel Rojo Sanchis, Center for networked biomedical research in neurodegenerative diseases (CIBERNED), Spain

Session 4: Oxidative Stress & Chronic Diseases (Part 1)

Oxidative Stress & Ocular Diseases

14:20 Oxidative Stress and cataracts: where are we now?
Julie Lim, The University of Auckland, New Zealand

14:45 The two faces of oxidative stress: from stress-response to pathogenic damage. The example of glaucoma molecular pathogenesis
Alberto Izzotti, University of Genoa, Italy

15:10 The nucleoredoxin-like 1 gene encodes for two proteins that contributes to a super-thioredoxin system
Thierry Léveillard, Institut de la Vision, France

15:20 The role of the cystine/glutamate antiporter (CGAP) in controlling redox balance in ocular tissues
Renita Martis, The University of Auckland, New Zealand

15:30 Endogenous lipid peroxidation product 9-HSa regulates progenitor fate in the vertebrate retina
Shahad Albadri, Institut Curie, France

15:40 Coffee Break & Poster Session

Oxidative Stress & Fertility

16:10 Male subfertility induced by heterozygous expression of catalytically inactive glutathione peroxidase 4 is rescued in vivo by systemic inactivation of the 15-lipoxygenase gene
Astrid Borchert, University Medicine Berlin-Charité, Germany

16:35 Placentation and oxidative stress: recent scientific advances
Asif Ahmed, Aston University, United Kingdom

17:00 Short oral presentations for sessions 3 & 4 upon abstracts submission

Among short oral presentations already selected:

Oxidative stress and periodontal disease in diabetic patients: a pilot study
Simone Marconcini, University of Pisa, Italy

18:30 End of the first day

20:00 Paris Redox 2017 Dinner

If you would like to participate, please register online before June 12.
Day 2 - June 27, 2017

08:30  Welcoming & Registration of Attendees

Session 4: Oxidative Stress & Chronic Diseases (Part 2)

Oxidative Stress & Cancer

09:00  Redox cycling quinones display antibacterial activity against Helicobacter pylori. Is oxidative stress playing a role?
Pedro Buc Calderon, Université Catholique de Louvain, Belgium

09:25  Oxidative Stress & Cancer: recent scientific advances
Fatima Mehta-Grigoriou, Institut Curie - INSERM U830, France

09:50  Dissecting the role of the endogenous antioxidant response in lung cancer
Volkan Sayin, Perlmutter Cancer Center, USA

10:15  Metastatic reprogramming of lung cancer cells by antioxidants
Clotilde Wiel, University of Gotenburg, Sweden

10:40  Coffee Break & Poster Session

11:10  Role of compartmentalized ROS and oxidative stress in angiogenesis and cancer
Massimo Santoro, University of Turin, Italy

Oxidative Stress & Metabolic Syndrome

11:35  Regional fat distribution in woman: the relation to lipogenic hormones, metabolic syndrome markers and oxidative risk
Jumana Saleh, Sultan Qaboos University, Oman

12:00  Short oral presentations for session 4 upon abstracts submission

12:30  Lunch break & poster session

Session 5: Oxidative Stress, New Bio-sensors & Biomarkers:
Imaging of Oxidative Stress in 2017
From 13:30 to 15:30

13:30  Imaging calcium and redox signals using genetically encoded fluorescent indicators
Ivan Bogeski, Georg August University, Germany

13:55  Short oral presentations upon abstracts submission

15:15  Coffee break & poster session

Session 6: Oxidative Stress, Antioxidants & Innovations

15:45  Short oral presentations upon abstracts submission

Among short oral presentations already selected:

Multifunctional radical quenchers as potential therapeutic agents
Sidney Michael Hecht, Arizona State University, USA

17:15  Concluding remarks by Paris Redox 2017 chairpersons
Paris Redox Awards 2017

18:00  End of Paris Redox 2017 Conference